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#### **Claims**

1	1. A self-cleaning system for delivering sanitized water or steam to
2	a dental workstation, said system comprising:
3	a water inlet which is connectable to a source of water;
4	a boiler in fluid communication with the water inlet, the boiler being
5	operable to provide steam and heat-sanitized water;
6	a sanitized water delivery line in fluid communication with the boiler;
7	a steam delivery line in fluid communication with the boiler;
8	a fluid delivery line which is connectable to the dental workstation; and
9	a diverter valve in fluid communication with the sanitized water
10	delivery line, the steam delivery line, and the fluid delivery line; said diverter
11	valve being operable to selectively establish fluid communication between the
12	fluid delivery line and the steam delivery line, or the fluid delivery line and the
13	sanitized water delivery line; whereby said fluid delivery line may be used to
14	selectively deliver sanitized water to the dental workstation, or to deliver steam
15	to said dental workstation, whereby said steam may be employed to sanitize
16	said fluid delivery line and said dental workstation.

2. The system of claim 1, further including a heat exchanger, said heat exchanger being operable to cool the heat sanitized water provided by said boiler.

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l	3.	The s	ystem	of c	laim	2, wh	nerein sai	d heat	exch	nanger	is f	urther
2	operable to	transfer	heat	from	said	heat	sanitized	i water	to a	a flow	of	water
3	passing thro	ugh said	water	inlet.								

- The system of claim 2, wherein said heat exchanger is further 4. operable to transfer heat from said heat sanitized water to a stream of air so as to heat said air.
- The system of claim 1, further including a sanitized water 5. reservoir in fluid communication with said boiler and with said sanitized water delivery line, said reservoir being operable to store sanitized water therein.
- The system of claim 1, wherein said boiler is operable to 6. provide steam at a pressure greater than atmospheric pressure.
- 7. The system of claim 6, wherein said steam pressure is employed to deliver said heat sanitized water from said boiler to said sanitized water delivery line, through said diverter valve, and through said fluid delivery line 3 without the assistance of a mechanical pump. 4
- The system of claim 1, wherein said boiler further includes a 8. 1 2 pressure relief valve.

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a water filter.

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1	9.	The system of claim 6, wherein said boiler operates at a pressure
2	in the range o	f 1.5–2.0 atmospheres.
1	10.	The system of claim 1, wherein said boiler is operable to
2	provide heat	sanitized water at a temperature in the range of 220–240°F.
1	11.	The system of claim 1, further including a temperature
2	controller in	communication with the boiler, said temperature controller being
3	operable to m	aintain the water in the boiler at a preselected temperature.
1	12.	The system of claim 1, further including a pressure controller in
2	communication	on with the boiler, said pressure controller being operable to
3	maintain the	steam in the boiler at a preselected pressure.
1	13.	The system of claim 1, further including a water conditioner in
2	fluid commu	nication with the water inlet.
1	14.	The system of claim 13, wherein said water conditioner includes
2	a water softer	ner cartridge.

The system of claim 13, wherein said water conditioner includes

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l	16.	The system of claim 1	, wherein said boiler is electrically	heated.

- 1 17. The system of claim 1, wherein said boiler further includes a 2 drain line in fluid communication therewith, said drain line being separate from 3 said sanitized water delivery line.
  - 18. The system of claim 1, further including a chemical agent reservoir in fluid communication with the fluid delivery line, said reservoir being operable to introduce a chemical composition into the fluid delivery line.
    - 19. The system of claim 18, further including a steam ejector in fluid communication with the steam delivery line and the chemical agent reservoir, said steam ejector being operable to deliver said chemical composition into the fluid delivery line when the diverter valve is actuated so as to establish fluid communication between the steam delivery line and the fluid delivery line.
  - 20. A system for selectably delivering sanitized water or steam to a workstation, said system comprising:
- a water inlet which is connectable to a source of water;
- a boiler in fluid communication with the water inlet, said boiler being operable to provide steam and heat sanitized water;

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6	a sanitized water delivery line in fluid communication with the
7	reservoir;
8	a steam delivery line in fluid communication with the boiler;
9	a fluid delivery line; and
10	a diverter valve in fluid communication with the sanitized water
11	delivery line, the steam delivery line, and the fluid delivery line; said diverter
12	valve being operable to selectively establish fluid communication between the
13	fluid delivery line and the steam delivery line, or the fluid delivery line and the
14	sanitized water delivery line; whereby said fluid delivery line may be used to
15	deliver sanitized water to the workstation or said steam may be employed to
16	sanitize said fluid delivery line.
1	21. A method for delivering sanitized water to, and cleaning biofilm
2	from, a fluid delivery line, said method comprising:
3	A. providing a fluid delivery system comprising:
4	a water inlet which is connectable to a source of water;
5	a boiler in fluid communication with the water inlet, the boiler
6	being operable to provide steam and heat sanitized water;
7	a sanitized water delivery line in fluid communication with the
8	reservoir;
9	a steam delivery line in fluid communication with the boiler;
10	and

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a diverter valve in fluid communication with the sanitized water
delivery line, the steam, delivery line, and with the fluid delivery line;
said diverter valve being operable to selectively establish fluid
communication between the fluid delivery line and the steam delivery
line or the fluid delivery line and the sanitized water delivery line;
B. introducing water into said boiler through said water inlet;
C. operating said boiler so as to generate steam and heat sanitized
water; and
D. selectably operating said diverter valve so as to deliver heat
sanitized water from said boiler to said fluid delivery line, or to deliver steam
from said boiler to said fluid delivery line whereby said steam functions to
remove biofilm from said fluid delivery line.